Pioneer Companies, Inc. 700 Louisiana St, Ste. 4300 Houston, Texas 77002 713-570-3333





To:	Tom Cra	g
	Longview	Fiber

From: John Hoy

713-570-3281 or 800-334-9503

		• • •		
Fax: 2	06 767 2442	Pages:	5 (including this o	ne)
Phone:		Date:	05/28/99	
Re:		CC:		
□ Urgent	☐ For Review	☐ Pierse Comment	☐ Please Reply	□ Please Recycle
• Comment	s:			

Good Morning Tom

Here is the MSDS you had requested. Thanks....jrh

USEPA SF 1256859

Material Safety Data Sheet

PIONEER CHLOR ALKALI COMPANY, INC. 700 LOUISIANA STREET, SUITE 4200 HOUSTON, TEXAS 77002

SODIUM HYDROXIDE, SOLUTION

Liquid Caustic Soda [Liquid Sodium Giuconate Added in Various Amounts (2.0-4.0%) According to Customer Specifications]

This information is required to be disclosed for safety in the workplace. This MSDS has been prepared within the guidelines of the Federal OSHA Hazard Communication Standard, 29CFR 1910.1200. This product is Hazardous under these regulations.

I. PRODUCT IDENTIFICATION

Revised: December 1992 Formula: NaOH - Aqueous

Synonyms/Common Names: Caustic Soda; Lye; Alkali

CAS Number: 1310-73-2 (Sodium Hydroxide) CAS Number: 527-07-1 (Sodium Gluconate) DOT Proper Shipping Name: Caustic Soda Liquid

DOT Hazard Class: Corrosive Material

DOT LD. Number: UN 1824

DOT Hazardous Substance: RQ = 1,000 lbs. NSF Standard 60 Maximum Use: 100 mc/L

II. PHYSICAL DATA

Appearance and Odor. Liquid Solution, slight yellow color at 68°F (20°C)

Freezing Point: Approximately 50°F (10-12°C)

Boiling Point: 266 - 284°F (130-140°C)

Vapor Pressure: @ 25°C: Approximately equal to water

Water Solubility: Miscible

Molecular Weight: 40.01 (Active Agent) Specific Gravity: 1.5(50% Solution)

III. FIRE AND EXPLOSION DATA

Flash Point: N/A

Autoignition Temperature: N/A

Extinguishing Media: N/A

Not considered flammable or combustible. Does not support combustion. However, contact with water or acids may generate sufficient heat to ignite nearby combustible materials. Contact with certain metals

such as aluminum, tin or zinc will evolve flammable and explosive hydrogen gas.

Products of combustion are imitating to the respiratory tract and may cause breathing difficulty and pulmonary edema. Symptoms may be delayed several hours or longer depending upon the extent of exposure.

As in any fire, prevent human exposure to fire, smoke fumes or products of combustion. Evacuate non-essential personnel from the fire area. Fireflighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.

Use standard firefighting techniques to extinguish fire involving this material - use water spray, dry chemicals or carbon dioxide.

Keep fire-exposed containers cool with water spray to prevent rupture due to excessive heat. High pressure water hose may spread product from broken containers increasing contamination.

Contaminated buildings, areas and equipment must not be used until they are properly decontaminated.

IV. SPILL OR LEAK HANDLING

IN CASE OF AN EMERGENCY, CALL CHEMTREC (800) 424-9300

Reportable Quantity per 40 CFR 302.4 is 1,000 lbs.

Any person entering an unknown concentration of a mist should use a positive-pressure, self-contained breathing apparatus or a positive-pressure, suppliedair respirator with escape pack.

If the release is into the air evacuate the area and stop the source of the release.

Should the release be into water this material must be removed via a vacuum system or neutralized and absorbed as necessary with a commercial absorbent. All industrial, municipal and public operations that are downstream of the release should be notified to monitor for evidence of the release.

1/93 - 2M - PRINTED IN USA



PIONEER CHLOR ALKALI COMPANY, INC.

V. PROTECTIVE EQUIPMENT REQUIREMENTS

Normally respiratory protection is not needed since volatility and toxicity are low. However, if mists, vapors, or aerosols are generated, wear a NIOSH/MSHA respirator approved for dusts and mists.

Ventilation Requirements: Use general exhaust ventilation unless mists or aerosols are generated. If mists, vapors, or aerosols are generated a local exhaust ventilation system is recommended.

Respiratory Requirements: Although not normally needed, if the material is used where adequate ventilation is not available, use NIOSH-approved dust, mist and tume respirators to reduce exposure. Should exposure potential under poor conditions become greater, use a positive-pressure, air-supplied respirator.

VI. HANDLING AND STORAGE

Containers should be stored in a cool, dry, well ventilated area away from strong acids, flammable materials non-compatible or reactive materials and sources of heat or flame. Store away from foodstuffs or animal feed. Exercise due caution to prevent damage to or leakage from the container.

VII. TOXICOLOGY

This product is harmful if inhaled, swallowed, or ingested or if skin or eyes are exposed to it. Handle the effects of exposure as follows:

Inhalation: Inhalation of this material can be irritating to the nose, mouth, throat and lungs. It may also cause burns to the respiratory tract which can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function. Inhalation of high concentrations can result in permanent lung damage.

Skin Contact: Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling and scab formation. Prolonged skin exposure may cause destruction of the dermis with impairment of the ability of skin at point of contact to regenerate. Effects from chronic skin exposure would be similar to those from single exposure except for effects secondary to tissue destruction.

Eye Contact: Severe irritation and/or burns can occur following eye exposure. Contact may cause impairment of vision and comeal damage.

Ingestion: Imitation and/burns can occur to the emire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding and/or tissue ulceration.

Exposure Limit Information:

The Federal OSHA Permissible Exposure Limit (PEL) is 2 mg/m3 as an 8-hour time-weighted average (29 CFR 1910.1000).

The American Conference of Governmental Industrial Hygienists (ACGIH, 1992) has recommended a Threshold Limit Value (TLV) of 2 mg/m³ as a ceiling limit.

PEL's and TLV's refer to airborne concentrations measured in the breathing zone by appropriate sampling techniques.

VIII. FIRST AID

If a known exposure occurs or if poisoning is suspected, do not wait for symptoms to develop. Immediately start the recommended procedures below and simultaneously contact a Poison Control Center, a physician, or the nearest hospital. Inform the person contacted of the type and extent of exposure, describe the victim's symptoms, and follow the advice given.

Ingestion: This material is corrosive. If swallowed, immediately give several glasses of water but do not induce vomiting. If vomiting does occur, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convuising person.

Skin Contact: Under a safety shower, immediately flush all affected areas with large amounts of running water for at least 15 minutes. Remove contaminated clothing and shoes. Do not attempt to neutralize with chemical agents. Get medical attention immediately. Properly dispose of contaminated clothing.

Eye Contact: Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eye and lids with water. Do not attempt to neutralize with chemical agents. Obtain medical attention as soon as possible. Oils or ointments should not be used at this time. Continue the flushing for an additional 15 minutes if a physician is not immediately available.

Inhalation: If inhaled, remove to tresh air. If not breathing, clear patient's airway and apply artificial respiration. If patient is breathing, oxygen may be given from a demand-type or continuous-flow inhaler, preferably with a physician's advice. Get medical attention immediately.

IX. REACTIVITY DATA

Non-corrosive to rubber at atmospheric temperatures. Sodium hydroxide is slowly corrosive to iron, copper, and glass. Aluminum, tin and zinc (including alloys containing any of these metals) will be attacked and are unsuitable as materials of construction. At elevated temperatures, the product may cause caustic embritlement of steel.

This material is incompatible with acids, explosives, carbohydrates, nitrogen containing organics, organic peroxides, phosphorous and halogen compounds.

Avoid dilution with water unless under controlled conditions.

X. TRANSPORTATION DATA

Under the Hazardous Materials Table 49 CFR 172.101 this material is considered corrosive, UN 1824. 49 CFR 172.101, Appendix, states that the Reportable Quantity (RQ) of a spill or leak of Sodium Hydroxide is 1,000 pounds and must be reported immediately at or above this limit.

The above material is subject under 49 CFR 173.244 and 173.249 to the U.S. DOT Hazardous Materials Regulations by the modes and packaging quantities stated below.

Rail - Bulk and Non-Bulk Motor - Bulk and Non-Bulk Water - Bulk and Non-Bulk Air - Bulk and Non-Bulk

XI. DISPOSAL

This product becomes a hazardous waste if it meets the criteria of a hazardous waste defined in 40 CFR 261.

If this product becomes a waste, then it will be a hazardous waste under 420 CFR 268 and must be managed according to the Land Disposal Restrictions. If this material becomes a hazardous waste, it must be disposed of in accordance with local, state and federal regulations in a permitted hazardous waste treatment, storage and disposal facility in compliance with 40 CFR 268.

It is the responsibility of the user to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

XII. ADDITIONAL REGULATORY STATUS INFORMATION

This material is listed on the Toxic Substances Control Act Inventory.

SARA Title III per 40 CFR 370.2 lists the hazard category of health as immediate (acute) and Delayed (chronic).

XIII. ADDITIONAL INFORMATION

This product is certified by the National Sanitation Foundation (NSF).

All information is offered in good faith, without guarantee or obligation for the accuracy of sufficiency thereof, or the results obtained, and is accepted at user's risk. The uses referred to are for the purpose of illustration only. User should investigate and establish the suitability of such use(s) in every case. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending license under valid patents.

XIV. SOURCE OF REFERENCES

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- 20. National Institute for Occupational Safety and Health (NIOSH), (1978). "Occupational Health Guldance for Sodium Hydroxide," NIOSH; Cincinnati, Ohio.

FOR FURTHER PRODUCT INFORMATION CONTACT:

(East or Central) Pioneer Chlor Alkell Company P.O. Box 23 St. Gabriel, Louislana 77078 Tel. (504) 642-1800

(West)
Pioneer Chlor Alkali Company
P.O. Box 86
Henderson, Nevada, 89015
Tel. (702) 565-8781

Specific Information by Chemical Revised April 1999		Kight-to-Know I	ID #:	WAD 009282161	Page 1 of
Name Longview Fibre Co.	WA zip 98134 "32.989"	Owner/Operator Name Name Longview Addree End of 1 City Longview FAX (360) 575-	Fibre Co. Fibre WAy	State WA Zip 986	425-1550 532 craig@long@ibr
SIC Code 2 6 5 3 Dun Bredstreet No D D 9 0 Mailing Address Must be included if different from Facility Address PO Box 24867 City Seattle State	uth • <u>WA</u> zip <u>98124</u>	Emergency Contact Name Tom Craig Phone (206) 762- Name Belton Ro Phone (206) 762-	7170 gers 7170	Title Plant 24-hr. Phone (206) 79	t Manager 3-4638 t Superintende 3-3086
Important: Read all instructions before completing form.		anuary 1 to December 31		information submitted last	уевг.
Chemical Description	Physical and Health Hazards (chack all that apply)	INVENTORY	Storage Code Container Type Pressure Tem	(Non-Cont	idential)
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Certification (Read and sign after completing all sections) 1 certify under penalty of law that I have personally examined and am familiar windividuals responsible for obtaining the information. I believe that the submitted Tom Craig, Plant Manager	ith the information submitted in imformation is toue, esqurate	and komplete.	based on my inquiry of	I have attache	ed a site plan ed a list of site coordinate

Name and official title of owner/operator's authorized representative

I have attached a description of dikes and other safeguard measures

Date Signed

WAD 00 4282161 Community Right-to-Know ID #: Specific Information by Chemical (REQUIRED INFORMATION) Revised April 1999 Page 1 of UBI/DOR#: 084-000-074 Facility Identification Owner/Operator Name Name LONGUIAN FIBRA CO. Name LONGVIEW FIBRE CO Phone (360) 425-1550 Address 5901 & MARGINAL WAY SOUTH Addres END OF FIBRE WAY State W/+ Zip 98134 City SGATTLE County KING City LONGUIAW State WA Zip 98632 Letitude N17 20,235' Longitude w 1220 32 989' FAX 1360) 575-5934 EMAIL: CTUCRAIG PLONGE Dun Bradstreet No 0 0 9 0 4 1 4 4 3 SIC Code 2 6 5 3 Emergency Contact Name TOM CRAIG TILL PLANT MANAGER Mailing Address LONGUIGH FIBRE CO Phone (206) 762-7170 24-hr. Phone (206) 793-463R Must be included 5901 E. MARGINAL WAY SOUTH Street If different from Name BILLTON RUGBRS Tille PLANT SUPERINTENDENT PO Box 24867 City SGATTLE State WA Zip 98124 Facility Address Phone (206) 762 -7170 24-hr. Phone (206) 723 - 3086 Check if information below is identical to the Important: Read all Instructions before completing form Reporting Period: From January 1 to December 31, 2000 information submitted last year Chemical Description Physical and Health Storage Codes Storage Locations Hazards (Non-Confidential) INVENTORY Container (check all that apply) Type Pressure Temperature (Pleasa Print) Trade Secret TANK IS LOCATED X Fire O 4 Max. Daily A Amount (code) DIESEL #2 AT THE NE CORNER Sudden Release DETHE BUILDING 6 4 Avg. Daily of Pressure Amount (code) **EHS Nama** Reactivity 3 6 5 No. of Days Immediate (acute On-site ואו Check all Delayed (chronic) that apply Pure Mix Solid Liquid Gee EHS 0 2 2 Trade Secret 5 Tilre O 4 Max. Daily TANK IS INSIDE BUILDING Amount (code) AT SOUTHBAST CORNER SODIUM HYDROXIDE SOLUTION Sudden Release 8 4 Avg. Daily of Pressure Amount (code) **EHS Name 人 Reactivity** 3 6 5 No. of Days X Immediate (acute On-site Check all Delayed (chronic) that apply Liquid Gas EHS Mix Solid Trade Secret CA8 Fire Max. Daily Amount (code) Chem. Nam Sudden Release Avg. Dally . of Pressure Amount (code) EHS Name Reactivity No. of Days immediate (acute) On-site Check all Delayed (chronic) Mix Solid Liquid Gas EHS that apply Pure OPTIONAL ATTACHMENTS Certification \ (Rend and sign after completing all sections) I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one thru ____, and that based on my inquiry of these X I have attached a site plan individuals responsible for obtaining the information, I believe that the submitted tinformation is true, accurate, and complete.

Signature

TOM CRAIG

Name and official title of owner/operator's authorized representative

/ PLANT MANAGER

I have attached a list of site coordinate

other safeguard measures

I have attached a description of dikes and

ler Two Emergancy and Hazardous Chemical Inventory Specific Information by Chemical Revised April 1899	_	Right-to-Know I INFORMATION)	D #: WAD 0092821	61 Page 1 of 1
Facility Identification Name LONGVIEW FIBRE CO. Address Seattle City SEATTLE County KING State W	084-000-074 /A Zip 98134 122° 32.989' 4 I 4 4 3	Owner/Operator Name Name LON	State 12 360-575-5934 11G 7170 24-hr, P	Phone (360) - 425-1550 P.O. BOX 639 WA Zip 98632 EMAIL < tdcraig@longfibre.com Title PLANT MANAGER hone (206) 933-6392 793-46 Title GENERAL FOREMAN hone (206) 723-3086
Important: Read all instructions before completing form.	Reporting Period: From J	anuary 1 to December 31	1999 Check I	I information below is identical to the tion submitted last year.
Chemical Description	Physical and Health Hezerds (check all that apply)	INVENTORY	Storage Codes Container Type Pressure Temperature	Storage Locations (Non-Contidential) (Please Print)
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CAS 1310 732 Trade Secret Chem. Nam SODIUM HYDROXIDE SOLUTION EHS Name Check all	Sudden Release of Pressure X Resotivity Immediate (scute) Olivente		K IS INSIDE BUILDING AT THEAST CORNER
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Certification (Read and sign after completing all sections) I certify under penalty of law that I have personalty examined and am familiar windividuals responsible for obtaining the information, I believe that the submittee TOM CRAIG / PLANT MANAGER Name and official title of owner/operator's authorized representative	with the information submitted of linformation in true, accurate, Signature	is pages the thru, and that, and complete.	t hased on my inquiry of these 2 - 27 - 00 Date Signed	OPTIONAL ATTACHNIENTS I have attached a site plan I have attached a list of site coordinate abbreviations I have attached a description of dikes and other safeound measures.

Plant E.P.A. ID NO. Page 1 of 1 pages Form Approved OMB No. 2050-0072 Revised November 1990 Washington Community Right-To-Know #: WAD 009282161 County:King Facility Identification Owner/Operator Name Name Longview Fibre Company Name Longview Fibre Company 206-425-1550 **Tier Two** 5901 East Marginal Way South P.O. Box 639 Longview, Wash. 98632 EMERGENCY City Seattle ____ County King Wa 98134 AND HAZARDOUS CHEMICAL INVENTORY Emergency Contact SIC Code 2 6 5 3 Oun & Brad 00 - 90 4-14 43 Neme Norman L. Buckholz Tale Plant Manager 24 Hr. Phone 206-839-3937 Phone 1 2061762 -7170 Specific Information by Chemical FOR D. Neme Gene Nunez Prod. Supervisor Phone (206) 762-7170 24 Hr. Phone (206) 672-0154 ONLY Date Received Check if before Important: Read all instructions before completing form Reporting Period From January 1 to December 31, 19 Q 2 Physical and Health Storage Codes and Locations **Chemical Description** inventory (Non-Confidential) Hazarda Storage Locations street, all third apply? 0 4 Max Dally Amount (code) Tank is on North East Sudden Release of Pressure Corner of Building #2 Fuel Oil Diesel 0 3 Avg. Delly Reactivity Check all that apply **EHS Name** Max, Delty Amount (00%) Chem. Name Avg. Dally Amount (pode) Check all No. of Days On-elfe (days) that apply: **EHS Name** Mex. Delly Amount (oode) Chem. Name Avg. Dally Amount (code) Irremediate (acute) Check ell that apply: No. of Days On-elte (days) **EHS Name**

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Plant Manager

I certify under penalty of law that I have personally exemined and am femiliar with the information submitted in pa on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information

Name and official title of owner/operator OR owner/operator's authorized representative

Norman L. Buckholz

I have attached a site plan
I have attached a list of site

Date signed

Plant E.P.A. ID NO. Revised November 1990 Washington Community Right-To-Know #: WAD 009282161 County:King Approved OMB No. 2050-0072 Facility Identification Owner/Operator Name 12.12 12.35 80 80 80 100 100 Phone 206-425-1550 Name Longview Fibre Company Name Longview Fibre Company Tier Two Mai Address P.O. Box 639 Longview, Wash. 98632 5901 East Marginal Way South EMERGENCY City Seattle County King was Wa 98134 AND HAZARDOUS CHEMICAL INVENTORY Emergency Contact SIC Code 2 6 5 3 Dun & Brad 0 0 - 9 0 4 Title Plant Manager 24 Hr. Phone 206-839-3937 Name Norman L. Buckholz Phone 1 2061762. -7170 Specific Information by Chemical POR OFFICIAL USE ONLY 100 Gene Nunez Prod. Supervisor Phone (206) 762-7170 (206) 672-0154 Important: Read all instructions before completing form Check & Infor Reporting Period From January 1 to December 31, 19 Q 2 **Physical** Storage Codes and Locations **Chemical Description** and Health inventory (Non-Confidential) Hazards Storage Locations tohers at the approx Max. Daily Amount (code) Fire Tank is on North East Corner of Building Chem. Name #2 Fuel Oil Diese: Avg. Dally Amount (code) Reactivity Check all No. of Days On-elte (days) Delayed (chronic) **EHS Name** 04 Mex; Delly Amount (code) Tank in in building at South Foot commences Avg. Dally Amount (code) Chack all 3 GG No. of Days **EHS Name** Max, Daily Amount (code) CAS Chem. Name Avg. Dally Amount (code) that apply: No. of Days On-elte (days) **EHS Name** Cortification (Read and sign after completing all sections) I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, I have attached a sile plan
I have attached a list of site
coordinate abbreviations

Signature

Date signed

Norman L. Buckholz Plant Manager

Name and official tale of conner/operator OR conner/operator's authorized representative

Plant E.P.A. ID NO.

Tier Two EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY Specific Information by Chemical	Name Longview Fibre Compansive 5901 East Marginal Waschy Seattle Courty King SECOND 2 6 5 B Dun & Bred Number	y y South 98134	Dernet/Opera Name Mail Address Emergency Nerre North Phone (20) Nerre Gene	nan L. Buckholz Tate Plant Manage (206) 839-3	5-155 ger 3937
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Tier Two	Facility Identification Name Longview Fibre Company		Name	LongviewFibre Compa	iny Phone (206)4	
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NVENTORY	SIC Code 2 6 5 3 Dun & Brad Number	00-904-	Emergency Name Gary	V. Smith 6 1762-7170	- Title Plant Manage (206) 246-0	er 0187
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Virgin Islands

U.S. Virgin Islands Emergency Response Commission Title III 179 Altona St. Thomas, VI 00802 (809) 774-3320 Ext. 169 or 170

Virginia

Virginia Emergency Response Council Department of Waste Management James Monroe Building 11th Floor 101 North 14th Street Richmond, Virginia 23219 (804) 225-2999

Washington

Response Commission Division of Emergency Management 4220 East Martin Way, Mailstop PT-11 Olympia, Washington 98504 (206) 753-5255

Washington Emergency

West Virginia

West Virginia Emergency Response Commission Department of Natural Resources Capitol Building, Room 669 1800 Washington Street, East Charleston, West Virginia 25305 (304) 348-2754

Wisconsin

Division of Emergency Governor 4802 Sheboygan Avenue Room 99A P.O. Box 7865 Madison, Wisconsin 53707 (608) 266-3232

Wyoming

Wyoming Emergency Management Agency Comprehensive Emergency Management 5500 Bishop Boulevard P.O. Box 1709 Cheyenne, Wyoming 82003 (307) 777-7566

EPA REGIONAL OFFICES

Region -- State

4 - Alabama 5 - Indiana 10 -- Alaska 7 - lowa 9 - American Somoa 7 - Kansas 9 -- Arizona 4 - Kentucky 6 - Arkansas 6 -- Louisana 9 - California 1 - Maine 8 -- Colorado 3 - Maryland -- Commonwealth of 1 -- Massachusetts Northern Marlana 5 - Michigan Islands - Minnesota 1 - Connecticut - Mississippi 3 -- Delaware 7 - Missouri 3 - District of - Montana Columbia 7 - Nebraska - Florida 9 - Nevada 4 - Georgia 1 - New Hampshire 9 - Guam 2 - New Jersey -- Hawall - New Mexico 10 - Idaho 2 - New York

8 -- North Dakota 5 - Ohlo 6 -- Oklahoma 10 - Oregon 3 -- Pennsylvania 2 - Puerto Rico 1 - Rhode Island 4 - South Carolina 8 -- South Dakota 4 - Tennessee 6 - Texas 8 -- Utah -- Vermont 2 - Virgin Islands 3 - Virginia 10 - Washington 3 - West Virginia 5 - Wisconsin

Contact the Preparedness Coordinator at the Regional Office

Region 1

STATE

EPA - Region 1 New England Regional Laboratory 60 Westview Street Lexington, MA 02173 (617) 860-4300 Ext. 221

5 -- Illinois

Region 2

EPA - Region 2 Woodbridge Avenue Edison, NJ 08837 (201) 321-6656

Region 3

EPA - Region 3 841 Chestnut Street Philadelphia, PA 19107 (215) 597-0807

Region 4

EPA - Region 4 345 Courtland Street, NE Atlanta, GA 30365 (404) 257-3931

4 - North Carolina

Region 5

EPA - Region 5 230 South Dearborn Street Chicago, IL 60604 (312) 886-1964

Region 6

EPA - Region 6 Alliad Bank Tower 1445 Ross Avenue Dallas, TX 75202-2733 (214) 655-2270

Region 7

EPA - Region 7 726 Minnesota Avenue Kansas City, Kansas 66101 (913) 236-2806

Region 8

EPA - Region 8 One Denver Place 999 18th Street Suite 1300 Denver, CO 80202-2413 (303) 293-1723

Region 9

EPA - Region 9 215 Fremont Street San Francisco, CA 94105 (415) 974-7460

Region 10

EPA - Region 10 1200 6th Avenue Seattle, WA 98101 (206) 442-1263

Plant EMH + VT) WASHINGTON COMMUNITY RIGHT-TO-KNOW #: WAD 00928216 COUNTY: KING Revised June 1990 Facility Identification Owner/Operator Name Name Longerhand Film Comy Profit Mail Address P.O. Rax 639, Longerian, W Tier Two **EMERGENCY** AND HAZARDOUS CHEMICAL INVENTORY Emergency Contact Dun & Brad 00-9011-11113 Name GARY U. SMI Specific Information by Chemical FOR OFFICIAL 24 Hr. Phone (206) \$34-393 Phone 120(d) 742-7/70 Date Received Important: Read all instructions before completing form Check information before a dentical to the information Reporting Period From January 1 to December 31, 19 Physical and Health Storage Codes and Locations (Non-Confidential) **Chemical Description** inventory Hazards Storage Locations (check-sill that apply) Max. Daily Amount (code) ant corner 03 Avg. Dally Amount (code) Reactivity 2 1 6 No. of Days **EHS Name** Max, Daily Amount (code) Chem. Name Avg. Dally Amount (code) No, of Days On-site (days) Delayed (chronic) **EHS Name** Max, Daily Amount (code) Chem. Name Avg. Dally Amount (code) Reactivity Check all No. of Days On-elte (days) **EHS Name** Certification (Read and sign after completing all sections) I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through I have attached a site plan on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I have attached a list of site I have attached a description of dives and other saleguard measures

Signature



5901 EAST MARGINAL WAY SOUTH
P.O. BOX 24867
SEATTLE, WASHINGTON 98124
206-762-7170
FAX 206-767-2442

February 17, 1995

Dear CRKW, SFD, KCOEM,

Enclosed is the Two Tier Emergency and Hazardous Chemical Inventory as required by Federal Emergency Planning and Community Right To Know Act (EPCRA). If you have any questions concerning this inventory, please contact me at 1-206-762-7170.

Sincerely,

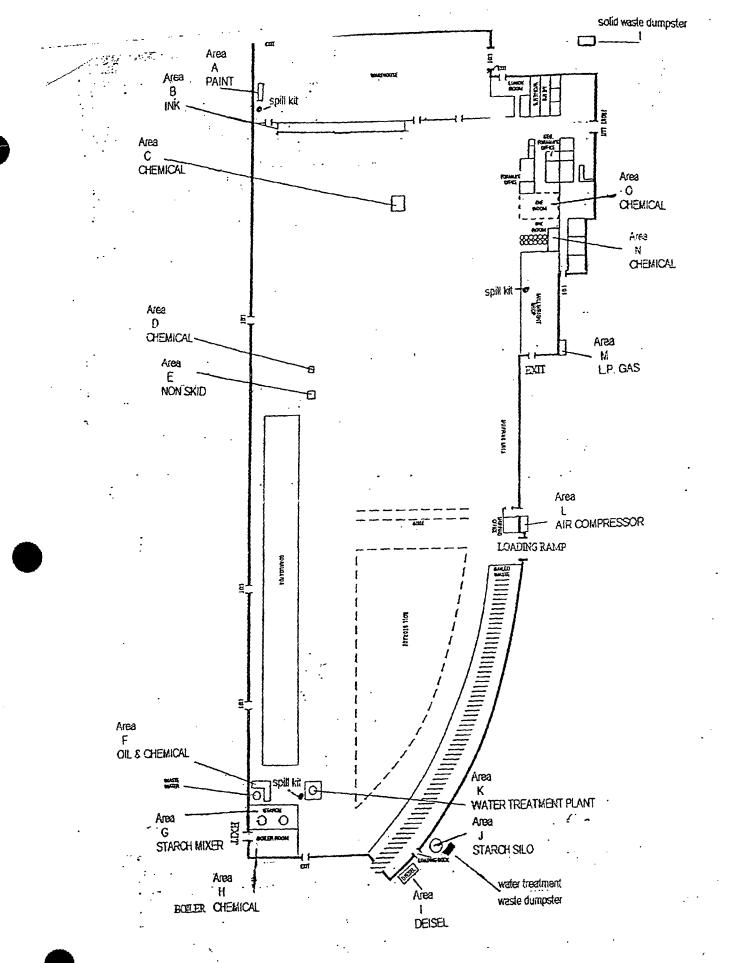
Sonny Lee Bivins General Foreman Longview Fibre, Seattle

SLB:ka enclosure

Revised November	1990 WASHINGTON COMMUNITY RIGHT		ant BPA IB	NO.		Pag Forn	Approved OMB No. 2050-007	pages .
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Letitude N47° 20.235' Longitude W1	WA Zip 98134 22° 32 989'	Owner/Operator Name Name Longview Addres 300 Fibre City Longview FAX (360) 575-5	Fibre Co. Way	Phone (360) <u>425-1550</u> State <u>WA</u> Zip <u>98632</u> EMAIL: <u>tdcraig@longfibre.com</u>
Mailing Address Must be included if different from Street Spot E. Marginal Way South	4 1 4 4 3 e WA Zip 98124 Reporting Period: From J.	Emergency Contact Name Tom Craig Phone (206) 762- Name Belton Roger Phone (206) 762-	7170	Title Plant Manager 24-hr. Phone (206) 793-4638 Plant Superintendent 24-hr. Phone (206) 723-3086 Check if information below is identical to the information submitted last year.
Chemical Description	Physical and Health Hazards (check all that apply)	INVENTORY	Storage Codes Container Type Pressure Tempera	Storage Locations (Non-Confidential)
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ner rwo emergency and Hazardous Chemical Inventory Specific Information by Chemical Revised April 1999		Right-to-Know	ID #:	WAD 009282161	Page 1 of
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Mailing Address Must be included if different from Facility Address PO Box 24867 City Seattle State Important: Read all instructions before complating form.		Emergency Contact Name Tom Craig Phone (206) 762- Name Belton Ro Phone (206) 762- anuery 1 to December 31	7170 gers -7170	24-hr. Phone (206 Title 24-hr. Phone (206	Plant Superintende t 1 723-3086 below is identical to the
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PEREER

PIONEER CHLOR ALKALI CO., INC.

17011 Beach Boulevard, Suite 550 - Huntington Beach, CA 92647

FAX

Date: 5-27-99

Number of pages including cover sheet: 5

Phone:
Fax phone: 206-767-2442
CC:

Phone: (714) 848 - 7730

Fax phone: (714) 848 - 7746

REMARKS:	Urgent	For your review	Reply ASAP	Please comment
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Material Safety Data Sheet

PIONEER CHLOR ALKALI COMPANY, INC. 700 LOUISIANA STREET, SUITE 4200 HOUSTON, TEXAS 77002

SODIUM HYDROXIDE, SOLUTION

Liquid Caustic Soda

This information is required to be disclosed for safety in the workplace. This MSDS has been prepared within the guidelines of the Federal OSHA Hazard Communication Standard, 29CFR 1910.1200. This product is Hazardous under these regulations.

I. PRODUCT IDENTIFICATION

Revised: March 1994 Formula: NaOH - Aqueous

Synonyms/Common Names: Caustic Soda; Lye; Alkail

CAS Number: 1310-73-2 (Sodium Hydroxide)

DOT Proper Shipping Name: Sodium Hydroxide Liquid

DOT Hazard Class: Corrosive Material

DOT I.D. Number: UN 1824

DOT Hazardous Substance: RQ = 1,000 lbs.

ANSI/NSF Standard 60 Maximum Dose for Potable

Water: 100 mg/L

II. PHYSICAL DATA

Appearance and Odor: Liquid Solution, slight yellow color at 68°F (20°C)

Freezing Point: Approximately 50°F (10-12°C)

Boiling Point: 266 - 284°F (130-140°C)

Vapor Pressure: @ 25°C: Approximately equal to water

Water Solubility: Miscible

Molecular Weight: 40.01 (Active Agent)
Specific Gravity: 1.5(50% Solution)

III. FIRE AND EXPLOSION DATA

Flash Point: N/A

Autoignition Temperature: N/A

Extinguishing Media: N/A

Not considered flammable or combustible. Does not support combustion. However, contact with water or acids may generate sufficient heat to ignite nearby combustible materials. Contact with certain metals such as aluminum, tin or zinc will evolve flammable and explosive hydrogen gas.

Products of combustion are irritating to the respiratory tract and may cause breathing difficulty and pulmonary edema. Symptoms may be delayed several hours or longer depending upon the extent of exposure.

As in any fire, prevent human exposure to fire, smoke tumes or products of combustion. Evacuate non-essential personnel from the fire area. Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.

Use standard firefighting techniques to extinguish fire involving this material - use water spray, dry chemicals or carbon dioxide.

Keep fire-exposed containers cool with water spray to prevent rupture due to excessive heat. High pressure water hose may spread product from broken containers increasing contamination or fire hazard.

Contaminated buildings, areas and equipment must not be used until they are properly decontaminated.

IV. SPILL OR LEAK HANDLING

IN CASE OF AN EMERGENCY, CALL CHEMTREC (800) 424-9300

Reportable Quantity per 40 CFR 302.4 is 1,000 lbs.

Any person entering an unknown concentration of a mist should use a positive-pressure, self-contained breathing apparatus or a positive-pressure, supplied-air respirator with escape pack.

If the release is into the air evacuate the area and stop the source of the release.

Should the release be into water this material must be removed via a vacuum system or neutralized and absorbed as necessary with a commercial absorbent. All industrial, municipal and public operations that are downstream of the release should be notified to monitor for evidence of the release until otherwise notified.

V. PROTECTIVE EQUIPMENT REQUIREMENTS

Normally respiratory protection is not needed since volatility and toxicity are low. However, if mists, vapors.

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PIONEER CHLOR ALKALI COMPANY, INC.

or aerosols are generated, wear a NIOSH/MSHA respirator approved for dusts and mists.

Ventilation Requirements:

Use general exhaust ventilation unless mists or aerosols are generated. If mists, vapors, or aerosols are generated a local exhaust ventilation system is recommended.

Respiratory Requirements:

Although not normally needed, if the material is used where adequate ventilation is not available, use NIOSH-approved dust, mist and fume respirators to reduce exposure. Should exposure potential under poor conditions become greater, use a positive-pressure, air-supplied respirator.

VI. HANDLING AND STORAGE

Containers should be stored in a cool, dry, well ventilated area away from strong acids, flammable materials non-compatible or reactive materials and sources of heat or flame. Store away from foodstuffs or animal feed. Exercise due caution to prevent damage to or leakage from the container.

VII. TOXICOLOGY

This product is harmful if inhaled, swallowed, or ingested or if skin or eyes are exposed to it. Handle the effects of exposure as follows:

Inhalation: Inhalation of this material can be irritating to the nose, mouth, throat and lungs. It may also cause burns to the respiratory tract which can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function. Inhalation of high concentrations can result in permanent lung damage.

Skin Contact: Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling and scab formation. Prolonged skin exposure may cause destruction of the dermis with impairment of the ability of skin at point of contact to regenerate. Effects from chronic skin exposure would be similar to those from single exposure except for effects secondary to tissue destruction.

Eye Contact: Severe irritation and/or burns can occur following eye exposure. Contact may cause impairment of vision and comeal damage.

Ingestion: Irritation and/bums can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding and/or tissue ulceration.

Exposure Limit Information: The Federal OSHA Permissible Exposure Limit (PEL) is 2 mg/m3 as an 8-hour time-weighted average (29 CFR 1910.1000).

The American Conference of Governmental Industrial Hygienists (ACGIH, 1992) has recommended a Threshold Limit Value (TLV) of 2 mg/m³ as a ceiling limit.

PEL's and TLV's refer to airborne concentrations measured in the breathing zone by appropriate sampling techniques.

VIII. FIRST AID

If a known exposure occurs or if poisoning is suspected, do not wait for symptoms to develop. Immediately start the recommended procedures below and simultaneously contact a Poison Control Center, a physician, or the nearest hospital. Inform the person contacted of the type and extent of exposure, describe the victim's symptoms, and follow the advice given.

Ingestion: This material is corrosive. If swallowed, immediately give several glasses of water but do not induce vomiting. If vomiting does occur, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person.

SkIn Contact: Under a safety shower, immediately flush all affected areas with large amounts of running water for at least 15 minutes. Remove contaminated clothing and shoes. Do not attempt to neutralize with chemical agents. Get medical attention immediately. Properly dispose of contaminated clothing.

Eye Contact: Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eye and lids with water. Do not attempt to neutralize with chemical agents. Obtain medical attention as soon as possible. Oils or ointments should not be used at this time. Continue the flushing for an additional 15 minutes if a physician is not immediately available.

Inhalation: If Inhaled, remove to fresh air. If not breathing, clear patient's airway and apply artificial respiration. If patient is breathing, oxygen may be given from a demand-type or continuous-flow inhaler, preferably with a physician's advice. Get medical attention immediately.

IX. REACTIVITY DATA

Non-corrosive to rubber at atmospheric temperatures. Sodium hydroxide is slowly corrosive to iron, copper, and glass. Aluminum, tin and zinc (including alloys

containing any of these metals) will be attacked and are unsultable as materials of construction. At elevated temperatures, the product may cause caustic embrittlement of steel.

This material is incompatible with acids, explosives, carbohydrates, nitrogen containing organics, organic peroxides, phosphorous and halogen compounds.

Avoid dilution with water unless under controlled conditions.

X. TRANSPORTATION DATA

Under the Hazardous Materials Table 49 CFR 172.101 this material is considered corrosive, UN 1824. 49 CFR 172.101, Appendix, states that the Reportable Quantity (RQ) of a spill or leak of Sodium Hydroxide is 1,000 pounds and must be reported immediately at or above this limit.

The above material is subject under 49 CFR 173.244 and 173.249 to the U.S. DOT Hazardous Materials Regulations by the modes and packaging quantities stated below.

Rail - Bulk and Non-Bulk Motor - Bulk and Non-Bulk Water - Bulk and Non-Bulk Air - Bulk and Non-Bulk

XI. DISPOSAL

This product becomes a hazardous waste if it meets the criteria of a hazardous waste defined in 40 CFR

If this product becomes a waste, then it will be a hazardous waste under 420 CFR 268 and must be managed according to the Land Disposal Restrictions. If this material becomes a hazardous waste, it must be disposed of in accordance with local, state and federal regulations in a permitted hazardous waste treatment, storage and disposal facility in compliance with 40 CFR 268.

It is the responsibility of the user to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

XII. ADDITIONAL REGULATORY STATUS INFORMATION

This material is listed on the Toxic Substances Control Act Inventory.

SARA Title III per 40 CFR 370.2 lists the hazard category of health as Immediate (acute) and Delayed (chronic).

XIII. ADDITIONAL INFORMATION

This product is certified to ANSI/NSF Standard 60.

All information is offered in good faith, without guarantee or obligation for the accuracy of sufficiency thereof, or the results obtained, and is accepted at user's risk. The uses referred to are for the purpose of illustration only. User should investigate and establish the suitability of such uses(s) in every case. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending license under valid patents.

XIV. SOURCE OF REFERENCES

- ACGIH Guide to Protective Clothing. Cincinnati, OH: American Conference of Government Industrial Hygienists, 1987.
- ANSI Z88.2. Recommended Practice for Respiratory Protection. American National Standards Institute, New York, NY.
- Baker, C.J., The Fire Fighter's Handbook of Hazardous Materials, 4th Ed., Indiana: Maltese Enterprises, Inc., 1984.
- Bretherick, L., Handbook of Reactive Chemical Hazards, 3rd Ed., Boston, MA: Butterworths, 1985.
- Casarett, L. and J. Doull, Eds., Toxicology: The Basic Science of Poisons, 3rd Ed., New York: Macmillan Publishing Co., Inc. 1986.
- Chemical Degradation and Permeation Database and Selection Guide for Resistant Protective: Materials. Austin, Texas.
- 7. Clayton, G. and F. Clayton, Eds., Patty's Industrial Hygiene and Toxicology, Vol. 2A-C 3rd Ed., New York: John Wiley & Sons, 1981 - 1982.
- Code of Federal Regulations, Titles 21, 29, 40 and 49. Washington, DC: U.S. Government Printing Office.
- Emergency Response Guide (DOT). Washington, DC: U.S. Government Printing Office, 1973.
- 10. Fire Protection Guide on Hazardous Materials, 9th Ed., National Fire Protection Association, Batterymarch Park, Quincy, MA, 1986.
- 11. Gosselin, R., et al., Gosselin-Clinical Toxicology of Commercial Products, 5th Ed., Baltimore: Williams and Wilkins, 1984.

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- Lenga, R., The Sigma-Aldrich Library of Chemical Safety Data, 1st Ed., Milwaukee, WI; Sigma-Aldrich Corporation, 1985.
- Lewis, R. and D. Sweet, Eds., Registry of Toxic Effects of Chemical Substances, 1985 - 1986, Washington, DC: U.S. Government Printing Office, 1987.
- NIOSH Pocket Guide to Chemical Hazards. Washington, DC: U.S. Government Printing Office, 1992.
- Sax, N. Irving, Dangerous Properties of Hazardous Materials 6th Ed., New York: Van Nostrand Reinhold Company. 1984.
- Threshold Limit Values and Biological Exposure Indices for 1991 - 1992. Cincinnati, OH: American Conference of Government Industrial Hygienists, 1992.
- Toxic Substance Control Act Inventory, Washington, DC: U.S. Government Printing Office, 1985.
- National Institute for Occupational Salety and Health (NIOSH), (1991). The Registry of Toxic Effects of Chemical Substances (RTECS), NIOSH; Cincinnati, Ohio.
- 20. National Institute for Occupational Safety and Health (NIOSH), (1978). "Occupational Health Guidance for Sodium Hydroxide," NIOSH; Cincinnati, Ohio.

FOR FURTHER PRODUCT INFORMATION CONTACT:

(East or Central) Pioneer Chior Alkali Company P.O. Box 23 St. Gabriel, Louisiana 70776 Tel. (504) 642-1800

(West) Pioneer Chior Alklai Company P.O. Box 86 Henderson, Nevada 89015 Tel. (702) 5656-8781

Material Safety Data Sheet

PIONEER CHLOR ALKALI COMPANY, INC. 700 LOUISIANA STREET, SUITE 4200 HOUSTON, TEXAS 77002

SODIUM HYDROXIDE, SOLUTION

Liquid Caustic Soda [Liquid Sodium Gluconate Added in Various Amounts (2.0-4.0%) According to Customer Specifications]

This information is required to be disclosed for safety in the workplace. This MSDS has been prepared within the guidelines of the Federal OSHA Hazard Communication Standard, 29CFR 1910.1200. This product is Hazardous under these regulations.

I. PRODUCT IDENTIFICATION

Revised: December 1992 Formula: NaOH - Aqueous

Synonyms/Common Names: Caustic Soda; Lye; Alkali

CAS Number: 1310-73-2 (Sodium Hydroxide)
CAS Number: 527-07-1 (Sodium Gluconate)
DOT Proper Shipping Name: Caustic Soda Liquid

DOT Hazard Class: Corrosive Material

DOT I.D. Number: UN 1824

DOT Hazardous Substance: RQ = 1,000 lbs. NSF Standard 60 Maximum Use: 100 mg/L

II. PHYSICAL DATA

Appearance and Odor: Liquid Solution, slight yellow color at 68°F (20°C)

Freezing Point: Approximately 50°F (10-12°C)

Boiling Point: 266 - 284°F (130-140°C)

Vapor Pressure: @ 25°C: Approximately equal to water

Water Solubility: Miscible

Molecular Weight: 40.01 (Active Agent)
Specific Gravity: 1.5(50% Solution)

III. FIRE AND EXPLOSION DATA

Flash Point: N/A

Autoignition Temperature: N/A

Extinguishing Media: N/A

Not considered flammable or combustible. Does not support combustion. However, contact with water or acids may generate sufficient heat to ignite nearby combustible materials. Contact with certain metals

such as aluminum, tin or zinc will evolve flammable and explosive hydrogen gas.

Products of combustion are imitating to the respiratory tract and may cause breathing difficulty and pulmonary edema. Symptoms may be delayed several hours or longer depending upon the extent of exposure.

As in any fire, prevent human exposure to fire, smoke fumes or products of combustion. Evacuate non-essential personnel from the fire area. Fireflighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.

Use standard firefighting techniques to extinguish fire involving this material - use water spray, dry chemicals or carbon dioxide.

Keep fire-exposed containers cool with water spray to prevent rupture due to excessive heat. High pressure water hose may spread product from broken containers increasing contamination.

Contaminated buildings, areas and equipment must not be used until they are properly decontaminated.

IV. SPILL OR LEAK HANDLING

IN CASE OF AN EMERGENCY, CALL CHEMTREC (800) 424-9300

Reportable Quantity per 40 CFR 302.4 is 1,000 lbs.

Any person entering an unknown concentration of a mist should use a positive-pressure, self-contained breathing apparatus or a positive-pressure, suppliedair respirator with escape pack.

If the release is into the air evacuate the area and stop the source of the release.

Should the release be into water this material must be removed via a vacuum system or neutralized and absorbed as necessary with a commercial absorbent. All industrial, municipal and public operations that are downstream of the release should be notified to monitor for evidence of the release.

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PIONEER CHLOR ALXALI COMPANY, INC.

V. PROTECTIVE EQUIPMENT REQUIREMENTS

Normally respiratory protection is not needed since volatility and toxicity are low. However, it mists, vapors, or aerosols are generated, wear a NIOSH/MSHA respirator approved for dusts and mists.

Ventilation Requirements: Use general exhaust ventilation unless mists or aerosols are generated. If mists, vapors, or aerosols are generated a local exhaust ventilation system is recommended.

Respiratory Requirements: Although not normally needed, if the material is used where adequate vertilation is not available, use NIOSH-approved dust, mist and furne respirators to reduce exposure. Should exposure potential under poor conditions become greater, use a positive-pressure, air-supplied respirator.

VI. HANDLING AND STORAGE

Containers should be stored in a cool, dry, well ventilated area away from strong acids, flammable materials non-compatible or reactive materials and sources of heat or flame. Store away from foodstuffs or animal feed. Exercise due caution to prevent damage to or leakage from the container.

VII. TOXICOLOGY

This product is harmful if inhaled, swallowed, or ingested or if skin or eyes are exposed to it. Handle the effects of exposure as follows:

Inhalation: Inhalation of this material can be irritating to the nose, mouth, throat and lungs. It may also cause burns to the respiratory tract which can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function. Inhalation of high concentrations can result in permanent lung damage.

Skin Contact: Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling and scab formation. Prolonged skin exposure may cause destruction of the dermis with impairment of the ability of skin at point of contact to regenerate. Effects from chronic skin exposure would be similar to those from single exposure except for effects secondary to tissue destruction.

Eye Contact: Severe imitation and/or burns can occur following eye exposure. Contact may cause impairment of vision and corneal damage.

Ingestion: Imitation and/burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding and/or tissue ulceration.

Exposure Limit Information:

The Federal OSHA Permissible Exposure Limit (PEL) is 2 mg/m3 as an 8-hour time-weighted average (29 CFR 1910.1000).

The American Conference of Governmental Industrial Hygienists (ACGIH, 1992) has recommended a Threshold Limit Value (TLV) of 2 mg/m³ as a ceiling limit.

PEL's and TLV's refer to airborne concentrations measured in the breathing zone by appropriate sampling techniques.

VIII. FIRST AID

If a known exposure occurs or if poisoning is suspected, do not wait for symptoms to develop. Immediately start the recommended procedures below and simultaneously contact a Poison Control Center, a physician, or the nearest hospital. Inform the person contacted of the type and extent of exposure, describe the victim's symptoms, and tollow the advice given.

Ingestion: This material is corrosive. If swallowed, immediately give several glasses of water but do not induce vomiting. If vomiting does occur, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person,

Skin Contact: Under a safety shower, immediately flush all affected areas with large amounts of running water for at least 15 minutes. Remove contaminated clothing and shoes. Do not attempt to neutralize with chemical agents. Get medical attention immediately. Properly dispose of contaminated clothing.

Eye Contact: Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eye and Ilds with water. Do not attempt to neutralize with chemical agents. Obtain medical attention as soon as possible. Oils or ointments should not be used at this time. Continue the flushing for an additional 15 minutes if a physician is not immediately available.

Inhalation: If inhaled, remove to fresh air. If not breathing, clear patient's airway and apply artificial respiration. If patient is breathing, oxygen may be given from a demand-type or continuous-flow inhaler, preferably with a physician's advice. Get medical attention immediately.

IX. REACTIVITY DATA

Non-corosive to rubber at atmospheric temperatures. Sodium hydroxide is slowly corrosive to iron, copper, and glass. Aluminum, tin and zinc (including alloys containing any of these metals) will be attacked and are unsuitable as materials of construction. At elevated temperatures, the product may cause caustic embritlement of steel.

This material is incompatible with acids, explosives, carbohydrates, nitrogen containing organics, organic peroxides, phosphorous and halogen compounds.

Avoid dilution with water unless under controlled conditions.

X. TRANSPORTATION DATA

Under the Hazardous Materials Table 49 CFR 172.101 this material is considered corrosive, UN 1824. 49 CFR 172.101, Appendix, states that the Reportable Quantity (RQ) of a spill or leak of Sodium Hydroxide is 1,000 pounds and must be reported immediately at or above this limit.

The above material is subject under 49 CFR 173.244 and 173.249 to the U.S. DOT Hazardous Materials Regulations by the modes and packaging quantities stated below.

Rail - Bulk and Non-Bulk Motor - Bulk and Non-Bulk Water - Bulk and Non-Bulk Air - Bulk and Non-Bulk

XI. DISPOSAL

This product becomes a hazardous waste if it meets the criteria of a hazardous waste defined in 40 CFR 261.

If this product becomes a waste, then it will be a hazardous waste under 420 CFR 268 and must be managed according to the Land Disposal Restrictions. If this material becomes a hazardous waste, it must be disposed of in accordance with local, state and federal regulations in a permitted hazardous waste treatment, storage and disposal facility in compliance with 40 CFR 268.

It is the responsibility of the user to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

XII. ADDITIONAL REGULATORY STATUS INFORMATION

This material is listed on the Toxic Substances Control Act Inventory.

SARA Title III per 40 CFR 370.2 lists the hazard category of health as immediate (acute) and Delayed (chronic).

XIII. ADDITIONAL INFORMATION

This product is certified by the National Sanitation Foundation (NSF).

All information is offered in good faith, without guarantee or obligation for the accuracy of sufficiency thereof, or the results obtained, and is accepted at user's risk. The uses referred to are for the purpose of illustration only. User should investigate and establish the suitability of such use(s) in every case. Nothing herein shall be construed as a recommendation for uses which infinge valid patents or as extending license under valid patents.

XIV. SOURCE OF REFERENCES

- ACGIH Guide to Protective Clothing. Cincinnati, OH: American Conference of Government Industrial Hygienists, 1987.
- ANSI Z88.2. Recommended Practice for Respiratory Protection. American National Standards Institute, New York, NY.
- Baker, C.J., The Fire Fighter's Handbook of Hazardous Materials, 4th Ed., Indiana: Maltese Enterprises, Inc., 1984.
- Bretherick, L., Handbook of Reactive Chemical Hazards, 3rd Ed., Boston, MA: Butterworths, 1985.
- Casarett, L. and J. Doull, Eds., Toxicology: The Basic Science of Poisons, 3rd Ed., New York: Macmillan Publishing Co., Inc. 1986.
- Chemical Degradation and Permeation Database and Selection Guide for Resistant Protective Materials. Austin, Texas.
- Clayton, G. and F. Clayton, Eds., Patty's Industrial Hygiene and Toxicology, Vol. 2A-C 3rd Ed., New York: John Wiley & Sons, 1981 1982.
- Code of Federal Regulations, Titles 21, 29, 40 and 49. Washington, DC: U.S. Government Printing Office.
- Emergency Response Guide (DOT). Washington, DC: U.S. Government Printing Office, 1987.
- Fire Protection Guide on Hazardous Materials, 9th Ed., National Fire Protection Association, Batterymarch Park, Quincy, MA, 1986.
- Gosselin, R., et al., Gosselin-Clinical Toxicology of Commercial Products, 5th Ed., Baltimore: Williams and Wilkins, 1984.
- Hazardline, Occupational Health Service, Inc., New York, NY.

- Lenga, R., The Sigma-Aldrich Library of Chemical Safety Data, 1st Ed., Milwaukee, WI: Sigma-Aldrich Corporation, 1985.
- Lewis, R. and D. Sweet, Eds., Registry of Toxic Effects of Chemical Substances, 1985 - 1986, Washington, DC: U.S. Government Printing Office, 1987.
- NIOSH Pocket Guide to Chemical Hazards. Washington, DC: U.S. Government Printing Office, 1992.
- 16. Sax, N. Irving, Dangerous Properties of Hazardous Materials 6th Ed., New York: Van Nostrand Reinhold Company. 1984.
- Threshold Limit Values and Biological Exposure Indices for 1991 - 1992. Clincinnati, OH: American Conference of Government Industrial Hyglenists, 1992.
- Toxic Substance Control Act Inventory, Washington, DC: U.S. Government Printing Office, 1985.
- National Institute for Occupational Safety and Health (NIOSH), (1991). The Registry of Toxic Effects of Chemical Substances (RTECS), NIOSH; Cincinnati, Ohio.
- National Institute for Occupational Safety and Health (NIOSH), (1978). "Occupational Health Guidance for Sodium Hydroxide," NIOSH; Cincinnati, Ohio.

FOR FURTHER PRODUCT INFORMATION CONTACT:

(East or Central) Pioneer Chlor Alkali Company P.O. Box 23 St. Gabriel, Louisiana 77076 Tel. (504) 642-1800

(West) Pioneer Chlor Alkali Company P.O. Box 86 Henderson, Nevada, 89015 Tel. (702) 565-8781

Material Safety Data Sheet

PIONEER CHLOR ALKALI COMPANY, INC. 700 LOUISIANA STREET, SUITE 4200 HOUSTON, TEXAS 77002

SODIUM HYDROXIDE, SOLUTION

Liquid Caustic Soda [Liquid Sodium Gluconate Added in Various Amounts (2.0-4.0%) According to Customer Specifications]

This information is required to be disclosed for safety in the workplace. This MSDS has been prepared within the guidelines of the Federal OSHA Hazard Communication Standard, 29CFR 1910.1200. This product is Hazardous under these regulations.

I. PRODUCT IDENTIFICATION

Revised: December 1992 Formula: NaOH - Aqueous

Synonyms/Common Names: Caustic Soda; Lye; Alkali

CAS Number: 1310-73-2 (Sodium Hydroxide)
CAS Number: 527-07-1 (Sodium Gluconate)
DOT Proper Shipping Name: Caustic Soda Liquid

DOT Hazard Class: Corrosive Material

DOT LD, Number: UN 1824

DOT Hazardous Substance: RQ = 1,000 lbs. NSF Standard 60 Maximum Use: 100 mo/L

II. PHYSICAL DATA

Appearance and Odor. Liquid Solution, slight yellow color at 68°F (20°C)

Freezing Point: Approximately 50°F (10-12°C)

Boiling Point: 266 - 284°F (130-140°C)

Vapor Pressure: @ 25℃: Approximately equal to water

Water Solubility: Miscible

Molecular Weight: 40.01 (Active Agent)
Specific Gravity: 1.5(50% Solution)

III. FIRE AND EXPLOSION DATA

Flash Point: N/A

Autoignition Temperature: N/A

Extinguishing Media: N/A

Not considered flammable or combustible. Does not support combustion. However, contact with water or acids may generate sufficient heat to ignite nearby combustible materials. Contact with certain metals

such as aluminum, tin or zinc will evolve flammable and explosive hydrogen gas.

Products of combustion are imitating to the respiratory tract and may cause breathing difficulty and pulmonary edema. Symptoms may be delayed several hours or longer depending upon the extent of exposure.

As in any fire, prevent human exposure to fire, smoke fumes or products of combustion. Evacuate non-essential personnel from the fire area. Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.

Use standard firefighting techniques to extinguish fire involving this material - use water spray, dry chemicals or carbon dioxide.

Keep fire-exposed containers cool with water spray to prevent rupture due to excessive heat. High pressure water hose may spread product from broken containers increasing contamination.

Contaminated buildings, areas and equipment must not be used until they are properly decontaminated.

IV. SPILL OR LEAK HANDLING

IN CASE OF AN EMERGENCY, CALL CHEMTREC (800) 424-9300

Reportable Quantity per 40 CFR 302.4 is 1,000 lbs.

Any person entering an unknown concentration of a mist should use a positive-pressure, self-contained breathing apparatus or a positive-pressure, suppliedair respirator with escape pack.

If the release is into the air evacuate the area and stop the source of the release.

Should the release be into water this material must be removed via a vacuum system or neutralized and absorbed as necessary with a commercial absorbent. All industrial, municipal and public operations that are downstream of the release should be notified to monitor for evidence of the release.

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V. PROTECTIVE EQUIPMENT REQUIREMENTS

Normally respiratory protection is not needed since volatility and toxicity are low. However, it mists, vapors, or aerosols are generated, wear a NIOSH/MSHA respirator approved for dusts and mists.

Ventilation Requirements: Use general exhaust ventilation unless mists or aerosols are generated. If mists, vapors, or aerosols are generated a local exhaust ventilation system is recommended.

Respiratory Requirements: Although not normally needed, if the material is used where adequate vertilation is not available, use NIOSH-approved dust, mist and fume respirators to reduce exposure. Should exposure potential under poor conditions become greater, use a positive-pressure, air-supplied respirator.

VI. HANDLING AND STORAGE

Containers should be stored in a cool, dry, well ventilated area away from strong acids, flammable materials non-compatible or reactive materials and sources of heat or flame. Store away from foodstuffs or animal feed. Exercise due caution to prevent damage to or leakage from the container.

VII. TOXICOLOGY

This product is harmful if inhaled, swallowed, or ingested or it skin or eyes are exposed to it. Handle the effects of exposure as follows:

Inhalation: Inhalation of this material can be imitating to the nose, mouth, throat and lungs. It may also cause burns to the respiratory tract which can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function. Inhalation of high concentrations can result in permanent lung damage.

Skin Contact: Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling and scab formation. Prolonged skin exposure may cause destruction of the dermis with impairment of the ability of skin at point of contact to regenerate. Effects from chronic skin exposure would be similar to those from single exposure except for effects secondary to tissue destruction.

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Inhalation: If inhaled, remove to fresh air. If not breathing, clear patient's airway and apply antificial respiration. If patient is breathing, oxygen may be given from a demand-type or continuous-flow inhaler, preferably with a physician's advice. Get medical attention immediately.

IX. REACTIVITY DATA

Non-corrosive to rubber at atmospheric temperatures. Sodium hydroxide is slowly corrosive to iron, copper, and glass. Aluminum, tin and zinc (including alloys containing any of these metals) will be attacked and are unsuitable as materials of construction. At elevated temperatures, the product may cause caustic embritlement of steel.

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XI. DISPOSAL

This product becomes a hazardous waste if it meets the criteria of a hazardous waste defined in 40 CFR 261.

If this product becomes a waste, then it will be a hazardous waste under 420 CFR 268 and must be managed according to the Land Disposal Restrictions. If this material becomes a hazardous waste, it must be disposed of in accordance with local, state and federal regulations in a permitted hazardous waste treatment, storage and disposal facility in compliance with 40 CFR 268.

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XII. ADDITIONAL REGULATORY STATUS INFORMATION

This material is listed on the Toxic Substances Control Act Inventory.

SARA Title III per 40 CFR 370.2 lists the hazard category of health as immediate (acute) and Delayed (chronic).

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(East or Central) Pioneer Chier Alkali Company P.O. Bex 23 St. Gabriel, Louislana 77076 Tel. (504) 642-1800

(West) Pioneer Chior Alkali Company P.O. Box 86 Henderson, Nevada 89015 Tel. (702) 565-8781

CHEMICAL	NFG	DATE
Amoco Premium Lead-Free Gasoline	Amoco Oil	07/19/85
Caustic Soda Beads or Pellets	Ashland Oil, Inc.	03/04/92
Blazer 851	Associated Chemists, Inc.	03/31/86
No Scrape	Associated Chemists, Inc.	12/10/85
Adhesive 1180 Splicing Gum	Atwood Adhesives, Inc.	11/27/85
Super Weld #1	Ben Miller and Co.	02/19/86
Chromate Indicator (Code #609)	Bond Chemical Co.	1 1
Formula #229	Bond Chemical Co.	1 1
Formula #402-B	Bond Chemical Co.	1 1
Formula #47-LX	Bond Chemical Co.	1 1
Molybdate Reagent (Code #624)	Bond Chemical Co.	1 1
Phenolphthalein Ind. #627	Bond Chemical Co.	1 1
Silver Nitrate N/58.5 (Code#636)	Bond Chemical Co.	1 1
MX-815: Water Base Detergent	Brulin & Company	01/09/85
Solvent Degreaser	Brulin & Company	1 1
Water Base Flexographic III Ink #22	Cal/Ink	05/15/86
Water Base Flexographic III Ink, #23	Cal/Ink	05/01/86
Water Base Flexographic V (#26 & #27)	Cal/Ink	05/01/86
Water Base Flexographic VII MSDS #36	Cal/Ink	11/01/85
Water Based Flexographic IV MSDS 24,25	Cal/Ink	11/01/85
D-56 Thinner	Central Solvents	07/25/76
Certanium 932 (P.N. 16565, 19411)	Certanium Alloys & Research	09/16/85
Certanium PMC Prep-Clean	Certanium Alloys & Research	10/22/85
CRC #3070; (Aerosol) Contact Cleaner	CRC Chemicals	11/01/85
Polytec BE	Dearborn Chemicals	05/01/78
Polytec BQ	Dearborn Chemicals	02/01/79
Polytec RB	Dearborn Chemicals	06/01/78
Dev Tap .	Devcon Corp.	10/01/85
Dexa Clean #721 Super X	Dexter-Hayes Chemical	05/23/86
Actusol T-776	DuBois Chemicals	01/08/87
C-1102 (Liquid Cleaner)	DuBois Chemicals	08/06/86
Peel Filmite	DuBois Chemicals	09/16/86
Eastobond Hot-Melt Adhesives: A-298	Eastman Kodak	06/03/86
Sulfuric Acid (Oil of Vitriol)	EM Science	01/26/88
Fuel Oil #6	Exxon Chemical	01/02/73
Adhesive 3546	Fuller, H. B.	11/11/86
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Adhesive W-3788-RL	Fuller, H. B.	02/06/86
Adnesive WB-2509	Fuller, H. B.	03/10/87
Adhesive X-3801-X-RB	Fuller, H. B.	02/06/86
Adhesive XR-1779 (Now WB-2509)	Fuller, H. B.	03/01/87
Fastset Additive WB-4508	Fuller, H. B.	03/11/91
Ballasts	General Electric	10/21/85
Light Bulbs	General Electric	05/02/85
HTI Insolubilizer 5950	Hopton Technologies, Inc.	01/01/89
Hubcor 883 Corn Starch	Hubinger Company	03/09/87
Aqueous OP Varnish	Inmont	02/26/86
Borax - Sodium Biborate Pentahydrate	Kerr-McGee	1 1
Borax - Sodium Tetraborate Decahydrate	Kerr-McGee	09/01/85
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Even Bond Cement	Matthews, James E.	/ /
Even Bond Sealer	Matthews, James E.	/ /
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Resisto Coat 35	Michelman Chemicals	10/27/86
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Nalco Solution S0277	Nalco	11/21/85
Nalcon 7649 Microbiocide	Nalco	01/02/86
Caustic Soda, Liquid, 50%	Pennwalt	02/19/87
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Paint Thinner 49-3, TT-T-291 Type 1	Preservative Paint Company	01/13/87
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BX Duplicating Fluid	Standard Dupl. Machines	1 1
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Fuel Chief 2 #00403	Texaco	11/27/85
ST-21: Poly Spray Jet	U. S. Polychemical	05/01/86
AMSCO Solv 1104 .	Union Oil	10/20/80
Unocal 76 Leaded Regular	Union Oil	05/04/90
Unocal ALTMP-EP Grease	Union Oil	06/13/90
Unocal Extra Duty NL Gear Lube 3EP	Union Oil	07/14/89
Unocal Extra Duty NL Gear Lube 4EP	Union Oil	12/17/91
Unocal Guardol 30	Union Oil	10/09/91
Unocal Heating Oil #1	Union Oil	05/01/89
Unocal Hi-Temp Grease No. 2	Union Oil	07/22/85
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Unocal Unimix Two Cycle Oil	Union Oil	05/21/88
Unocal UNOBA EP Grease 2	Union Oil	09/04/92
Unocal Unoba Moly HD Grease No. 1	Union 0il	07/22/85
Unocal Unoba Moly HD Grease No. 2	Union Oil	05/21/88
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Amerex Corporation

EM Science

Antifoam

Graphic Science

Cab-O-Sil Technical Data

Adhesive

H.B. Fuller Company

Amway L.O.C.

Amway Corporation

Amway Corporation

Industroclean

Welding Rods AlasKan Chemical

Index Ashland Chemical Company

Absorbent All Purpose or Indus. Ashland Chemical Company

Actusol T-776 DuBois Chemical

Adcon GL-10 Adhesives Consultants Corporation

COIPCIACION

Adhesive Remover Rycoline Solvent & Chemical Company

Aladdin Waterless Handcleaners Leber Ink Company Inc.

Alkyd Sanding Sealer Preservative Paint Company

Assault West Chemical Products, Inc.

Aqua Ammonia Plaw Material Data Handbook

Unocal A Grease 2/ Unocal 76

Unocal Altemp - EP Grease Unocal 76

Unocal Automotive Diesel Unocal 76

Aragraphe

47004 Adhesive

Tom Pac, Inc.

Swift Adhesives

Page 1

APC Super Powder

Antifoam

Amway concentrated Industroclean

"Section B"

Belt Dressing

Buffer Solution Hardness 1

Borax

Ben Matte Clear

Ben Matte Stain

Blazer

851 Blazer

Borax 5 Mol Tech Granular

Technical Specifications

Starch Slurry Preservative

Starch Preservative

Microorganism Control

Borax

Borden

AM-TECH Inc.

Graphic Science, Inc.

Amway Corporation

"Section B"

Sprayon Products

Hach Company

U.S. Borax & Chemical Corp.

Dalys Incorporated

Dalys Incorporated

Associated Chemists Inc.

Associated Chemists Inc.

Ashland Chemical Company

Buckman Laboratories Inc.

Buckman Laboratories

Buckman Laboratories

Buckman Laboratories

Kerr-McGee Chemical Corporation

Cascorez E 9570A

566 Sealer

"Section C"

Unocal Cable Lube

CAB-O-GRIP II

Carbon Dioxide

Carry Up Solution

CASCO-Resin WS-189-84

Graphic System Div.

"Section C"

Unocal 76

Cabot Corporation

Amerex Corporation

Graphic Science, Inc.

Borden

Page 2

Cascorez E-9570A Borden Cascovin E-9722 Borden Caustic Soda Beads 500# Drum Ashland Chemical Company Caustic Soda . Hooker Industrial Chemicals Caustic Soda-FLAKE PELS Pennwalt Corporation Caustic Soda Solution 50% Dow Chemical U.S.A. Certanium 34C 1/8 Solder Certanium Alloys & Research Co. Certanium 43 Certanium Alloys & Research Co. Certanium 56 Certanium Alloys & Research Co. Certanium 57F 1/16 Sil Solder Premier Industrial Corporation Certanium 70F Certanium Alloys & Research Co. Certanium 77 1/8 Gas-Tig Certanium Alloys & Research Co. Certanium 77 3/32 Gas-Tig Certanium Alloys & Research Co. Certanium 100 Certanium Alloys & Research Co. Certanium 425 Certanium Alloys & Research Co. Certanium 608 Certanium Alloys & Research Co. Certanium 702 Certanium Alloys & Research Co. Certanium 705 Certanium Alloys & Research Co. Certanium 707-SP 1/8 AC-DC Certanium Alloys & Research Co. Certanium 707-SP 3/32 AC-DC Premier Industrial Corporation Certanium 707-SP GOLD 1/8 Certanium Alloys & Research Co. Certanium 7076-SP GOLD 5/32 Certanium Alloys & Research Co. Unocal Unax AW 150 Unocal 76 Certanium 709 Certanium Alloys & Research Co. Certanium 747 1/8" AC-DC Certanium Alloys & Research Co. Certanium 747 3/32 Certanium Alloys & Research Co.

Page 3

Certanium 747 5/32 AC-DC Premier Industrial Corporation Certanium 770 Max Certanium Alloys & Research Co. Certanium 889 SP Certanium Alloys & Research Co. Certanium Alloys & Research Co. Certanium 903 Anti-Spatter Certanium Alloys & Research Co. Certanium Alloys & Research Co. 932 Certanium Alloys & Research Co. Certanium 934 GEL Flux Certanium 934 Soldering Flux Certanium Alloys & Research Co. Certanium 950 Certanium Alloys & Research Co. Certanium Alloys & Research Co. Certanium 970 Certanium PMC Super Quick Set Certanium Alloys & Research Co. Citra Safe Target Incorporated Inland Technology Incorporated Citra Safe C-1102 - General Cleaner DuBois Chemicals Cleaning Products Scotch Brite Clor Pennwalt Corporation Conduct Solder .093 x 8.5 PT Premier Industrial Corporation Conduct Solder .032 x 15.5 FT Premier Industrial Corporation Conduct .093 x 1 LB WGT Premier Industrial Corporation Conduct Solder .032 x 1 LB WGT Premier Industrial Corporation Conduct Solder .032 Premier Industrial Corporation Contact Cleaner CRC Chemicals Corrugated Board Longview Fibre Company CVW 25 CVC Specialty Company Polypropylene Strapping Cyklop Strapping Corporation KRYTOX-Flourinated Greases DuPont

Page 4

Dacrey 81	National Starch & Chemical Company
Dacrey 81 .	National Starch & Chemical Company
Diphacinone Concentrate	Bell Laboratories, Inc.
Dykem Steel Blue DX100	Dykem Company
Aerosol Information	Manteks Aerosol
Dowicil (R) 75-0	Dow Chemical U.S.A.
Requirement Information	Matthews International Corporation
D-56 Thinner	Graphic Systems Div.
Di-Hex	Leber Ink Company Inc.
Dowicide	Dow Chemical U.S.A.
Unocal Diesel #2	Unocal 76
Digest Drain Opener	National Santify Supply Co.
Epolene Waxes	Eastman Chemical Products Inc.
Ethanol, CD-19 190 Proof	Union Carbide
Ethylene Glycol	
2 Ethyl Hexyl alcohol	· .
Unocal Extra Duty NL Gear Lube 4EP	Unocal 76
Unocal Extra Duty NL Gear Lube 5EP	Unocal 76
Unocal Extra Duty NL Gear Lube 6EP	Unocal 76
Unocal Extra Duty NL Gear Lube	Unocal 76
Flexo Wash	Graphic Science Inc.
Full Coat Coating	Fuller Company
Full-Grip Coating	Fuller Company

Päge 5

Eagle-Picher Industries Floor Dry Freon (R) TF Van Waters & Rogers Inc. Fastest Starch Additive Fuller Company Fibre Lox Glued Lap Adhesive Atwhood Adhesive, Inc. Formaldehyde (37% Du Pont de Nemours & Co. Methanol) Information Formaldehyde Synthetic Resin Fuller Company Fullrey Starch Additive Fuller Company Safety Data Go-Jo Hand Cleaner Glycerine 1,2.3-Propanetriol EM Science Superior Graphite Co. Graphite Gloss Coat 2048 Michelman, Inc. G-40T Adhesives Consultants Corp. Gorilla Grip BCH Industries Graphic Science Inc. Water Flexographic Ink Unocal Guardol Motor Oil 15W/40 Unocal 76 Unocal Guardol 10W Unocal 76 Unocal Guradol 30W Unocal 76 Mineral Fuller company Varn Products Co., Inc. Graphite Shop Cleaner #24 G.W. Sani-Clean Great Western Chemical Co. Synthetic Resin Fuller Company Fastest Starch Additive Fuller Company HTU Insolubilizer/ 5950 Hopton Technologies Hard Hat Safety Orange Rust-Oleum Corporation

Fuller Company

Synthetic Resin Based Product

Page 6

Hard Hat Zinc Rich Compound Rust-Oleum Corporation Heat Shield Certanium Alloys & Research Co. Unocal Hydraulic/Tractor Fluid Unocal 76 Halon 1211 Amerex Corporation Unocal Hydraulic Oil AW46 Unocal 76 Unocal Hi-Temp Grease No. 2 Unocal 76 Unocal Heavy Duty Oil 30 Unocal 76 Unocal Heavy Duty Motor Oil 10W Unocal 76 Hutch Rez R 5242LF Hutchings Company Northwest Inc. Ink Reducer Graphic Science, Inc. Safety Data for Ink Cal Ink Water Base Flexographic Cal/Ink Division, Flint Ink Corp. Ink Safety Information Cal Ink Water Base Flexographic 111 324 Cal/Ink Division, Flint Ink Corp. Water Base Flexographic III 323 Cal/Ink Division, Flint Corp. Ink Safety Information Cal/Ink Division, Flint Corporation Water Base Flexographic IV Cal/Ink Division, Flint Ink Corp. Water Flexograpic Ink Graphic Science, Inc. IWT 102 Amway Corporation Industroclean Heavy Duty Cleaner Envico-Chem JT-1 KRYTOX Du Pont Lacquer Thinner Central Solvents & Chemicals

Päge 7

Co.

Luxlite Enamel

MP Gear Lube L5 80W/90

Multipurpose ATF Dexron (R)II

ManVer Hardness Indicator

815-MX

Molykote Grease

Liquid Polyphosphate Treatment

Sodium Tripolyphosphate

Silicone Dry Film Lube

Marsh K-1 Black Stencil Ink

Metallic Gold Ink

Michelmman, Inc. MMST solution

Coating x300 AF

Mantek-S Aerosol

M/M Quick Cure

Metasol D3T

Union Unax AW 150

Synthetic Resin Based Prod-in-

water

M/M Gasket Maker (Red)

M/M Fix all

Metallic Gold Flexographic

Michem Coat 40 H

User Responsibility

Metasol D3T

Preservative Paint Co.

Unocal 76

Unocal 76

Hach Company

Water Base Detergent

Dow Corning Corporation

North Coast Product Information

North Coast Chemical Company

Dow Corning Corporation

Marsh Stencil Machine Company

Willamette Industries, Inc.

Michelman, Inc.

Michelman Inc.

Mantek Division of NCH Corp.

Certified Labs, Div. of NCH

Corp.

Calgon Corporation

Unocal 76

Fuller Company

Mantek, Division of NCH Corp.

Mantek, Division of NCH Corp.

Graphic Science

Michelman, Inc.

Michelman, Inc.

Calgon Corporation

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Metasol D3T	Calgon Corporation
Michem Coat 40-E & 50-A	Michelman Chemicals, Inc.
Coating x300 AF	Michelman, Inc.
Morpholine	
MP Gear Lube LS 80W/90	Unocal 76
Man Ver Hardness Indicator	Hach Company
815 MX	Brulin & Company, Inc.
Metasol CB-225 A.D.	Calgon Corporation
Micryl 763R	Michelman, Inc.
Nonslip 222	Product Data-Vikings Industries
Sodium Choloride	North Coast Chemical Company
Nonslip Indicator Spray	Vikings Industries
North Woods Fireball	Superior Supply Co., Inc.
Nalco Solution So.224	Nalco Chemical Company
Nalco Solution So. 222	Nalco Chemical Company
Nalco Solution So. 243	Nalco Chemical Company
Nalco Solution So. 431A	Nalco Chemical Company
Nalco Solution So. 274	Nalco Chemical Company
Nalco Solution So. 275	Nalco Chemical Company
Nalco Solution So. 277	Nalco Chemical Company
Nalco Solution So. 433	Nalco Chemical Company
Nalco Solution So. 400	Nalco Chemical Company
Nalco Solution So. 726	Nalco Chemical Company
Nalpac 8242	Nalco Chemical Company
No-Scrape	Templex Products
N-3731	Fuller Company

Page 9

No-Slip 111	Key Tech
No-Slip 222	Key Tech Corporation
Proguard	National Starch & Chemical Company
Nabond	National Starch & Chemical Company
Neutralizing Amine Corrosion Inhibitor	North Coast Product Information
WT 202	North Coast Chemical Company
Umax AW32-Union Oil Co.	Unocal 76 "Union Oil Co."
Overprint Varnish PM OIl 220	Willamette Industries Inc. Unocal 76
PM Oil 150	Unocal 76
Oil of Vitriol	EM Science
Omirey 2405-92	Olgilvie Mills, Inc.
Omirey 2405	Olgilvie Mills, Inc.
Oxygen Scavenger	North Coast Product Information
Printing Ink	U.S. Printing Ink Corporation
Petrolene Propane	Petrolane
Paint Thinner/Mineral Spirits	Preservatives Paint Company
Peel filmite	Dubois Chemicals
Phos Acid Cleaner	Wesman Co. Inc.
Trisodium Phosphate	Monsanto Company
Poly Spray Jet	U.S. Polychemical Corporation
Polytec Be	Dearborn Chemicals
Power Sol	Uni-Lab Corporation
PMC Prep and Clean	Premier Industrial Corporation
P. K. Dry Chemical	Amerex Corporation

Page 10

Piq Absorbent Socks Pig Pig Mat Van Waters Pink Luron CVC Specialty Chemicals Polyoxy alkanes Cyklop Strapping Co. Polyester Strapping National Starch & Water Proofing Resin Company Chemical Producer National Starch Company Starch & · Chemical Proguard National Company Steel Safety Information Puget Sound Pipe & Supply Co. Qualipol Chemical Packaging Co. R & R Smith Co. Inc. Rejuvenator Rapi-Bond Thinner Huber Corporation Rapi-Bond #2 Adhesive Huber Corporation Safety Info. for Rapi-Bond #2 Huber Corporation Rapi-Bond 844 Huber Corporation Ridge Dark Cutting Oil Ridge Tool Company 28-54 Red Oxide Spraycraft Preservative Paint Company Ridge Nu-Clear Ridge Tool Company Regular Dry Chemical Amerex Corporation Rip-Off 4-Tek Industries, Inc. Rozol Mineral Oil Concentrate Chempar Chemical Co., Inc. Shell Sol 2 Shell Canada Chemical Company 120 Silicone Spray Rochester Midland Type S (Caraset) / Olgilvie Mills HC-150 Surtec, Inc.

Page 11

Sani-Tuff Waterless Cleaner Starch or Amylum Cas Sodium Hydoxide Sodium Metaborate 8 mol. 566 Sealer 49-17 Shell Xylene Sodium Hypochlorite Safety Data 480 Splicing Gun Strip-Cote Super Sorb Shell Sol/Mineral Spirits Steaval B Synthetic Resin Based Product Nr 730 Spraygrip Super Motor Oil 10w/40 Union 76, Stoddard Solvent Sodium Chloride Synthetic Resin Emulsion Talon-G Rodenticide Tergitol Thiadiazine-Metasol D3T D-56 Thinner Three Elephant V-Bor Tridecyl Alcohol Tree Top Yellow

Turbine Oil 100

National Sanitary Supply Co. Minnesota Corn Processors Baker Chemical Company U.S. Borax Chemical Company Water Spray Foam Co. Dry Chem Preservative Paint Company Sodium Hypochlorite Atwood Adhesives, Inc. Preservative Paint Co. Diatomic Chemical Corporation Shell Canada Limited Unocal 76 Fuller Company Chesterton Company Unocal 76 Union Oil Company of California Van Waters & Rogers, Inc. Water Based Products Van Waters & Rogers, Inc. Union Carbide Corporation Calgon Corporation Chemical Hazard Identification Kerr-McGee Chemical Corporation Organix Solvents Leber Ink Company

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Unocal 76

Triton Synthetic Oil 5EP	Unocal 76
Refining & Marketing Division	Oil Responsibilities
Turbine Oil 32	Unocal 76
Turbine Oil 220	Unocal 76
Turbine Oil 22	Unocal 76
Union Butterfield Tapping Fluid	Ashburn Industries, Inc.
Trust Accelerator	X-Ergon, A Partsmaster Co.
Trust A Debonder	X-Ergon, A Partsmaster Co.
Titrant Solution Hardness 3	Hach Company
Trust-X Hybrid Adhesive	X-Ergon, A Partsmaster Co.
TSP-C	Olin-Ocean Network
Textile Sealer E91	Muhlen Sohn
Umax AW 32	Unocal 76
Urea Prilled Commercial Grade	Ashland Chemical Company
Unoba Moly HD Grease No. 2	Unocal 76
Unoba Moly HD Grease No. 1	Unocal 76
Unoba EP Grease 2	Unocal 76
Unocal 76 Unleaded Reg Gas	Unocal 76
Unocal 76 Unleaded Gas	Unocal 76
Unax AW 68	Unocal 76
Unax AW 100	Unocal 76
Unax AW 150	Unocal 76
Unax AW 320	Unocal 76
Unax AW 46	Unocal 76
Unax AW 32	Unocal 76
82900 unmodified corn starch	Grain Processing Corporation

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Vanivet 9N9	Van Waters & Rogers Inc.
Versacryl 763	Johnson & Son, Inc.
Water Based Flexograpic Ink	Willamette Industries, Inc.
Wagner "21B" Super Heavy Duty	Wagner Division McEdison Company
WD 40 Spray Cans	WD 40 Company .
Westkleen 4115 (1851)	West Chemicals Products Inc.
White finish "lite" Mill Coat	Preservative Paint Company
White Base Prepoxy.	Preservative Paint Company
Way Oil HD 220	Unocal 76
Way Oil HD 68	Unocal 76
Water Based Flexographic Ink	Graphic Sciences
WT-102	Savolite Inc.
WT-104	Savolite Inc.
WT-105	Savolite Inc.
WT~106	Savolite Inc.
WT-109	North Coast Chemical Company
WT~202	Savolite
MSDS Letter	Fuller Company
Synthetic Resin	Fuller Company
Zeniplex 2 Cartridge	Pennwalt Corporation
Zorball	Ashland Chemical Company
Zep Aerosolve	ZEP
Zepelec	ZEP

Page 14

Vanwet 9N9

Van Waters & Rogers Inc.

PLANE EFA LU NO. WASHINGTON COMMUNITY RIGHT-TO-KNOW #: Wad 009282161 Owner/Operator Name Facility Identification Name Longview Fibre Company ,206 , 425-1550 Name _ Longview Fibre Co. Tier Two Wal Address P.O. Box 639 Longview, Wa. Street .: 5901 E Marginal Way South EMERGENCY City Seattle county King State Wa To 98134 AND Emergency Contact CHEMICAL Tab Plant Manager Dun & Brad 0 0 -9 0 4 -1 4 4 3 Name Norman Buckholz SK Code 2 6 5 3 24 Hr. Phone (206) 839 - 3937 Phone 1 2061762-7170 Specific Information by Chemical POR OFFICIAL USE ONLY 100 Name Gene Nunez Tete Prod. Supervisor Phone (206) 762-7170 24 Hr. Phone (206) 672-0154 Date Received Reporting Period Important: Read all instructions before completing form From January 1 to December 31, 19 Physical Storage Codes and Locations Optional and Health Chemical Description (Non-Confidential) Inventory Hazards Swrage Locations echeck of that appryl Q 4 Max Dally Armount (books) CAS 6 8 4 7 6 X Fire Tank is on North East Corner Sudden Release of building Diesel Fuel #2 Chem. Name 0 4 Amount (code) Reactivity Irrmediate (acute) Check all . 3 6 5 Na. of Days that apply: Delayed (chronic) **EHS Name** 0 4 Max Delly Amount (onde) Tank inside southeast end Sudden Release of building Chem. Name O 4 Avg. Dally Reactivity knynediate (acute) Check all 2 2 9 No. of Deys that apply: Delayed (chronic) Sodium Hydroxide Solution **EHS Name** Max. Deliy Amount (code) CAS Sudden Release of Pressure Chem. Name Avg. Dally Amount (oods) Readivity Immediate (acute) Check all that apply: Delayed (chronic) **EHS Name** Certification: (Read and sign infer completing all sections)

I certify under penalty of law that I have personally examined and an farriar with the information submitted in pages one through and on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is to talk and the submitted information is to talk and the submitted information.

Builton 2. Plant Manager I have attached a site plan I have attached a list of site coordinate abbreviations -28-94 I have attached a description of dikes and other saleguard measures lame and official title of owner/operator OR owner/operator's authorized representative

5901 EAST MARGINAL WAY SOUTH
P.O. BOX 24867
SEATTLE, WASHINGTON 98124
206-762-7170
FAX 206-767-2442

February 28, 1994

Dear Sirs:

Enclosed is the Two Tier Emergency and Hazardous Chemical Inventory as required by Federal Emergency Planning and Community Right To Know Act (EPCRA). If you have any questions concerning this inventory, please contact me at 1-206-762-7170

Sincerely,

LONGVIEW FIBRE COMPANY

Richard Morris

RM:rp enclosure

ier Two	Facility Identification Name Longview Fibre Co. Street 5901 E Marginal Way City Seattle county King	South	Name	Longview Fibre Co 2.0. Box 639 Longv	mpany (206)	425-
ID IZARDOUS IEMICAL VENTORY SCIFIC OFFICIAL Chemical		9alo Wa 0 0-9 04-	Emergency Co	n Buckholz 0762-7170 Nunez 0762-7170	Tale Plant Manage 1206 839 -	3937 viso
	tead all Instructions before completing f	Physical and Health Hazards	erlod From January 1 to December 3	Storag	e Codes and Locations (Non-Confidential) wrage Locations	Octional
10	d the former to the terms to th	X Fire Sudden Release of Pressure Reactivity Invirediate (acute) Delayed (chronic)	O 4 Amoteri (code) O 4 Amoteri (code) O 4 Amoteri (code) O 5 No. of Days On-elle (days)	A 1 4 Tank	is on North East Corner	
AS 0 1 nem. Name	Caustic Soda V X Solid Uquid Class EH3 Sodium Hydroxide Solution	Fire Sudden Release of Pressure X Reactivity X Immediate (scule) Delayed (chronic)	O 4 Amount (cute) O 4 Avg. Dally Amount (pode) 2 2 9 No. of Devs. On-elle (days)	C 1 4 Tank of but	inside southeast end Ilding	
AS	Trade Sacret Sac	Fire Sudden Release of Pressure Reactivity Irrenadiate (acvie) Delayed (chronic)	Avg. Dally Amount (code) Avg. Dally Amount (code)			

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Rovised November	TO CHARLOTON OUT DITTEN TO THE		ad 009282161			Page 1 of 1 Form Approved OMB No. 20	pages 50-0072
Tier Two	Facility Identification Name Longview Fibre Co. Street 5901 E Marginal Way Chy Seattle county King	South	z _o 98134	Name Lo	ngview F	Fibre Company 206 39 Longview, Wa. 98632	, 425-1
AND HAZARDOUS CHEMICAL INVENTORY Specific	SIC Code 2 6 5 3 Dun & Brad Number		1 4 4 3	Emergency Conta Name Norman I Phone (206)70	Buckholz	Tale Plant Mar 24 Hr. Phone (206) 839	nager) -3937
nformation ry Chemical	POR DEFICIAL USE ONLY Date Received			Name Gene Niii Phone (206) 76		Tate Prod. Sug. 24 Hr. Phone (206) 672	
Important: R	ead all instructions before completing fo	rm Reporting F	Period From January	ery 1 to December 31, 19			
Chem	lical Description	Physical and Health Hazards (2-ext at the approx	Inven	tory	Container 1)pe Pressure Fertowettre	Storage Codes and Location (Non-Confidential) Storage Locations	Optional
	7 6 3 4 6 Secret Diesel Fuel #2 X	X Fire Sudden Release of Pressure Reactivity Immediate (soute) Delayed (chronic)	O 4 Amount O 4 Amount O 4 Amount O 4 Amount O 6 O 6 O 6 O 6 O 6 O 6 O 6 O 6 O 6 O		A 1 4	Tank is on North East Corr	ner
CAS 0 1 Chem. Name Check att Pun EHS Name	Caustic Soda W X X Caustic Soda W X Caustic Soda W X Caustic Solid Utquid Game EHS Sodium Hydroxide Solution	Fire Sudden Release of Pressure X Reactivity Introducte (acute) Delayed (chronic)	0 4 Mary Dall Amount 1 Amount 2 2 9 More Other	y code)	C 1 4	Tank inside southeast end of building	
CAS Chem. Name Check all Und apply: Pure	Trade Secret	Fire Sudden Release of Pressure Reactivity Immediate (acute) Delayed (chronic)	Avg. Dall Amount	and the second			
Certifications: I certify under penalty of on my inquiry of those in Norman L.	(Read and size after completies all sections). In that I have personally examined and am larnilar with the dividuals responsible for obtaining the information, to believe it Buckholz, Plant Manager owner/operator OR owner/operator's authorized representative.	Information submitted in pages hat the submitted information is __\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq__\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subseteq_\subs	cree through and and	that beend	2 y - q	Opplored Aller famories I have ettached a size plan I have ettached a lat of size coordinate abbreviations I have effacted a description of diket and other saleguard mea.	aures

Tier Two Emergency and Hazardous Chemical Inventory Specific Information by Chemical	Community 1	Right-to-Know l	ID #:	MAD 0092	82161
Revised April 1999	(REQUIRED	INFORMATION)			Page 1 of 1
Facility Identification Nome Longview Fibre Co. Address 5901 East Marginal Way South City Seattle County King State & Latitude N47° 20.235' Longitude W122°	84-000-074 NA_Zip 98134 32.989*	Owner/Operator Name Name Longview Addres End of F City Longview FAX 13601 575-5	Fibre Co.	State	Phone (360) 425-1550 WA Zip 98632 EMAIL: tdcraig@longfibre.c
SIC Code 2 6 5 3 Dun Bredstreet No 0 0 9 0	4 1, 4, 4, 3	Emergency Contact			
Mailing Address Must be included if different from Facility Address Name Longview Fibre Co. 5901 East Marginal Way Clay Seattle State Important: Read all Instructions before completing form.		Name Belton Ro Phone (206) 762-	gers -7170	24-hr. P	Title Plant Manager Phone (206) 793-4638 Title Plant Superintendent Phone (206) 793-4627 If information below is identical to the
	Physical and Health			Informa	tion submitted last year.
Chemical Description	Hazards (check all that apply)	INVENTORY	Storage C Container Type Pressure	Temperature	Storage Locations (Non-Confidential) (Please Print)
CAS 6 8 4 7 6 3 0 2 Trade Secret Chem. Nam Diesel. #2 fuel EHS Name Check all X	X Fire Sudden Release of Pressure Reactivity Immediate (acute	O 4 Mex.' Dally Amount (code) O 4 Avg. Dally Amount (code) 3 6 5 No. of Days On-site			k is located at the NE orner of the huilding
CAS 1 3 1 0 7 3 2 Trade Secret Chem. Nam Sodium Hydroxide Solution EHS Name Check all X X I X I I I I I I I I I I I I I I I	Fire Sudden Release of Pressure X Reactivity X Immediate (acute	1	C 1		k is inside building at E corner
Chem. Nam EHS Name Check ell	Fire Sudden Release of Pressure Reactivity Immediate (scute	Olivanii.			
Certification (Read and sign after completing all sections). I certify under penalty of law that I have personally examined and am familiar individuals responsible for obtaining the information, I believe that the submitted Tom Craig. Plant Manager	with the information submitted in distribution is true, accordance of the submitted submitted in the submitted submitted in the submitted submitte	in pages one through and the	nt based on my inqu 2 - / 3 Date Signe	-02	OPTIONAL ATTACHMENTS X I have attached a site plan I have attached a list of site coordinate abbreviations I have attached a description of dikes and

iter i we emergency and Hazardous Chemical Inventory Specific information by Chemical Revised April 1999		Right-to-Know I	ID#: <u>い</u>	AD 009	282161	Page 1 of 7
Facility Identification Name Longuist FIBRE CO. Address S901 E. MARCINAL WAY SU. City SEATTLE County IXING State of Letitude N 47° 20, 235′ Longitude W 12 SIC Code Z 6 5 3 Dun Bredstreet No 0 0 7 0 Mailing Address Name / 2000 2 10 5 5 600 CO	274 24 ²¹ 12 98134 2°32, 9891 4 [1443]	Owner/Operator Name Name LONGUE Addres City LONGUE FAX (360) 575- Emergency Contact Name TOM C/Phone (206 7 62	IGW FIBRE FFIBRE S 1W -5934 BAIC-	State W	A Zip 986 EMAIL: TOCO	125-1550 32 AIG@ LONG IBAG CM
Must be included if different from Street S901 E. MARCINAL Facility Address PO Box 7.484.70114 SELITIES State	WAY SOUTH	Name BELTON Phone 1206 76	ROGERS	24-lır. Phone	Tille PLANT 12061 793	50PZRINTGNOGHT -4627
Important: Read all instructions before completing form.	Reporting Period: From J	anuary 1 to Decomber 31	, 2001		rmation below is I submitted last yea	
Chemical Description	Physical and Health Hazards (check all that apply)	INVENTORY	Storage Code Container Type Pressure Ter		Storage Locati [Non-Confiden (l'Isase Print	idel)
Chem. Nam DIESEL *2 FUEL EHS Name Check all X	Sudden Release of Pressure Reactivity Immediate (acute Delayed (chronic) Fire Sudden Release of Pressure Reactivity Immediate (acute Delayed (chronic)	Amount (code) O Y Avg. Delly Amount (code) Amount (code) 3 6 5 No. of Days On-site		THE THE S	LOCATING CORNA	VEX OF
Chem. Nam EHS Name Check all	Fire Sudden Release of Pressure Reactivity Immediate (scute) Delayed (chronic)			_	OPTIONAL ATTAC	
I certify under penalty of law that I have personally examined and am familiar windividuals responsible for obtaining the information, I believe that the submittee Tory CRAIC PLANT MANAGE Name and official title of owner/operator's authorized representative	l iinformation is true, accurate,	n pages oue thru, and that and complete.	Date Signed	of these	abbreviations	ist of site coordinate lescription of dikes and

ner two emergency and ristardous Chemical Inventory Specific Information by Chemical Revised April 1999	•	Right-to-Know	ID #:WA	n 009282161	Page 1 of
Name Longview Fibre Co. Address 5901 E. Marginal Way South City Seattle County King State	WA zip 98134	Owner/Operator Name Name Longview Addres End of City Longview FAX (360) 575-	Fibre Co. Fibre WAy	Phone (360) 4 State WA Zip 98632 EMAIL: tdcrai	25-1550 g@longfibre.co
Mailing Address Must be included if different from Facility Address Important: Read all Instructions before completing form.		Emergency Contact Name Tom Craig Phone (206) 762- Name Belton Ro Phone (206) 762- anuary 1 to December 31	7170 gers 7170	Title Plant Ma 24-tir. Phone (206) 793-46 Title Plant St 24-hr. Phone (206) 723-30 Check if information below is id information submitted last year.	perintendent 86
Chemical Description	Physical and Health Hazards (check all that apply)	INVENTORY	Storage Codes Container Type Pressure Tempera	Storage Locatio Non-Confidenti	ns .
CAS 6 8 4 7 6 3 0 2 Trade Secret Chem. Nam Diesel #2 Fuel EHS Name Check all X	X Fire Sudden Release of Pressure Reactivity Immediate (acute Delayad (chronic) Fire Sudden Release of Pressure X Reactivity X Immediate (acute	Amount (code) Amount (code)	C 1 5	Tank is located a NE corner of the Tank is inside b at SE corner.	building.
that apply Pure Mix Solid Liquid Gas EHS CAS Trade Secret Chem. Nam EHS Name Check all Check all Check all Check all Check all Check Solid Liquid Gas EHS	Delayed (chronic) Fire Sudden Release of Pressure Reactivity Immediate (acute	Max. Daily Amount (code) Avg. Daily Amount (code) No. of Days On-eite			
Certification (Read and sign after completing all sections). I certify under penalty of law that I have personally examined and am familiar windividuals responsible for obtaining the information, I betieve that the submittee. Tom Craig, Plant Manager Name and official title of owner/operator's authorized representative	with the information submitted in a time security of time security of time security of the sec	perces one thru, and the	t based on my inquiry of thes 2-6-0 (Date Signed	t have attached a list abbreviations	plan of site coordinate cription of dikes and